

X is not Z,

$Y_1$  and  $Y_2$  are, independently from each other,  $CR_1R_2$ ,

$R_1$  and  $R_2$  are, independently from each other, H,  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy or  $C_1$ - $C_4$  acyloxy,

i, j, and k are, independently from each other, an integer in the range from 1 to 10,

the total number of C atoms in  $Y_1$  and  $Y_2$ , the C atoms of  $R_1$  and  $R_2$  not included, is in the range of 2 to 100,

Q is a hydrophilic atom or group selected from the group consisting of O, NH, C=O, O-C=O and  $CR_3R_4$ ,

$R_3$  and  $R_4$  are, independently from each other, selected from the group consisting of H, OH,  $C_1$ - $C_4$  alkoxy and  $C_1$ - $C_4$  acyloxy, and

$R_3$  and  $R_4$  are not H at the same time;

wherein when  $Q = NH$ , Z is not  $NH_2$ ; and

wherein when  $k > 1$ , the Q's for each  $[(Y_1)_i-Q-(Y_2)_j]_k$  are independently selected from each other.

15. (Twice Amended) Process for the detection of a biomolecule which is a partner of a specifically interacting system of complementary binding partners, comprising the steps of:

- a) contacting a surface according to claim 10 with a sample suspected to contain the complementary binding partner,
- b) removing non-specifically bound sample components in a washing step, and

- c) detecting specifically bound sample components.

B<sup>3</sup>  
16. (Amended) Process according to claim 15 wherein for said detecting, a colored, fluorescent, bioluminescent, chemoluminescent, phosphorescent or radioactive label; an enzyme; an antibody or a functional fragment or derivative thereof, a protein A/gold based system; a biotin/avidin/streptavidin based system; or an enzyme electrode based system is used.

- B<sup>4</sup>  
17. (Twice Amended) Process for the isolation of a biomolecule which is a partner of a specifically interacting system of complementary binding partners, comprising the steps of:
- a) contacting a surface according to claim 10 with a sample suspected to contain the biomolecule complementary binding partner,
  - b) removing non-specifically bound sample components in a washing step, and, optionally,
  - c) eluting specifically bound sample components.

- B<sup>5</sup>  
18. (Twice Amended) A method of affinity chromatography comprising the steps of:  
providing a surface according to claim 10 as an affinity matrix; and  
performing affinity chromatography with the affinity matrix.

19. (Twice Amended) A method of detecting a biomolecule comprising the steps of:
- B5 cat* providing a sensor chip or biochip comprising a surface according to claim 10 ; and  
detecting a biomolecule with the sensor chip or biochip.